



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/775,840 Confirmation No. 1645
Applicants : Carey John Naquin,
John R. Hardin, Jr.,
Chris Maranuk,
Jim Estep,
David Rios-Aleman
Haoshi Song
Filed : February 10, 2004
TC/A.U. : 3672
Examiner : Not Yet Assigned

Title : Apparatus for Changing Wellbore Fluid Temperature
Docket No. : 1391-46000
Client Ref. No.: 2003-IP-011711 USA
Customer No. : 23505

Date : July 1, 2004

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

PRELIMINARY AMENDMENT

Sir:

Please amend the above-identified application as follows.

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of the claims that begins on page 8 of this paper.

Amendments to the Drawings begin on page 17 of this paper and include attached replacement sheets.

Remarks/Arguments begin on page 18 of this paper.

An **Appendix** including amended drawing figures is attached following page 19 of this paper.